

<110> alcedo biotech GmbH

<120> Use of HMGB, HMGN, HMGA proteins

<130> A 10009 PCT

<160> 64

<170> PatentIn version 3.1

<210> 1

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<213> Homo sapiens

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Glu Lys Asp Gly Thr Glu Lys Arg Gly Arg Gly Arg Pro Arg Lys Gln  
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Pro Pro Val Ser Pro Gly Thr Ala Leu Val Gly Ser Gln Lys Glu Pro  
35 40 45

Ser Glu Val Pro Thr Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly Ser  
50 55 60

Lys Asn Lys Gly Ala Ala Lys Thr Arg Lys Thr Thr Thr Thr Pro Gly  
65 70 75 80

Arg Lys Pro Arg Gly Arg Pro Lys Lys Leu Glu Lys Glu Glu Glu  
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Gly Ile Ser Gln Glu Ser Ser Glu Glu Glu Gln  
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<213> Homo sapiens

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20 25 30

Pro Pro Lys Glu Pro Ser Glu Val Pro Thr Pro Lys Arg Pro Arg Gly  
35 40 45

Arg Pro Lys Gly Ser Lys Asn Lys Gly Ala Ala Lys Thr Arg Lys Thr  
50 55 60

Thr Thr Thr Pro Gly Arg Lys Pro Arg Gly Arg Pro Lys Lys Leu Glu  
65 70 75 80

Lys Glu Glu Glu Glu Gly Ile Ser Gln Glu Ser Ser Glu Glu Glu Gln  
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Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
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Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

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Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
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Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Glu Glu  
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Thr Glu Glu Thr Ser Ser Gln Glu Ser Ala Glu Glu Asp  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
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Arg Lys Trp

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<213> Homo sapiens

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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
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Arg Lys Trp Glu Glu Phe Tyr Ile Ala Ala  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
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Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
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Arg Lys Trp Pro Thr Ile Ala Leu Cys Thr His Trp Ile Asn Ile Cys  
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Asp Ala Ser Val Asn Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg  
35 40 45

Trp Lys Thr Met Ser Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala  
50 55 60

Lys Ala Asp Lys Ala Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro  
65 70 75 80

Pro Lys Gly Glu Thr Lys Lys Phe Lys Asp Pro Asn Ala Pro Lys  
85 90 95

Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg Pro Lys  
100 105 110

Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala Lys Lys  
115 120 125

Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln Pro Tyr  
130 135 140

Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Ile Ala  
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Ala Tyr Arg Ala Lys Gly Lys Pro Asp Ala Ala Lys Lys Gly Val Val  
165 170 175

Lys Ala Glu Lys Ser Lys Lys Lys Glu Glu Glu Glu Asp Glu Glu  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
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Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Ala Gly Val Gln Trp Tyr Asn Leu Gly Ser Leu Gln Pro  
85 90 95

Pro Pro Pro Arg Phe Lys Gln Phe Ser Cys Leu Arg Leu Leu Ser Ser  
100 105 110

Trp Asp Tyr Arg His Pro Pro Pro His Pro Ala Asn Phe Cys Ile Phe  
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Ser Arg Asp Arg Val Ser Pro Cys Trp Pro Gly Trp Ser Arg Thr Pro  
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Asp Leu Arg  
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20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Asp Asn Leu Leu Pro Arg Thr Ser Ser Lys Lys Lys Thr  
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Ser Leu Gly Asn Ser Thr Lys Arg Ser His  
100 105

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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

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Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
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Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Tyr Ser  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
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Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

PCT\_EP\_04\_00030\_sequence listing.txt

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Val Asn  
85 90 95

Val Ala Leu Pro Gly Lys Asp His Pro Gly Asn Leu Ile Tyr Leu Leu  
100 105 110

Phe Ser Lys Asn Ala Thr  
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Met Ser Ala Arg Gly Glu Gly Ala Gly Gln Pro Ser Thr Ser Ala Gln  
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Gly Gln Pro Ala Ala Pro Ala Pro Gln Lys Arg Gly Arg Gly Arg Pro  
20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Pro Gln Gln Val Val Gln Lys Lys Pro Ala Gln Asp  
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PCT\_EP\_04\_00030\_sequence listing.txt

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Thr Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly  
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Thr Pro Gly Arg Lys Pro Arg Gly Arg Pro Lys Lys  
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Thr Glu Lys Arg Gly Arg Gly Arg Pro Arg Lys  
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<210> 18

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<400> 19

Thr Pro Gly Arg Lys Pro Arg Gly Arg Pro Lys Lys  
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Pro Gln Lys Arg Gly Arg Gly Arg Pro Arg Lys  
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Ser Pro Lys Arg Pro Arg Gly Arg Pro Lys Gly  
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PCT\_EP\_04\_00030\_sequence listing.txt

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Val Val Gln Lys Lys  
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Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln  
1 5 10 15

Thr Cys Arg Glu Glu His Lys Lys His Pro Asp Ala Ser Val Asn  
20 25 30

Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser  
35 40 45

Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala  
50 55 60

Arg Tyr Glu Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly

65 70 75

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<213> Homo sapiens

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Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln Thr Cys Arg  
Page 12

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Glu Glu His Lys Lys His Pro Asp Ala Ser Val Asn Phe Ser Glu  
20 25 30

Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Ala Lys Glu  
35 40 45

Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala Arg Tyr Glu  
50 55 60

Arg Glu Met Lys Thr Tyr Ile  
65 70

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Pro Lys Lys Pro Arg Gly Lys Met Ser Ser Tyr Ala Phe Phe Val Gln  
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Thr Cys Arg Glu Glu His Lys Lys Lys His Pro Asp Ala Ser Val Asn  
20 25 30

Phe Ser Glu Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser  
35 40 45

Ala Lys Glu Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala  
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Arg Tyr Glu Arg Glu Met Lys Thr Tyr  
65 70

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<400> 26

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Pro Asn Ala Pro Lys Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser  
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Glu Tyr Arg Pro Lys Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly  
20 25 30

Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp  
35 40 45

Asp Lys Gln Pro Tyr Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr  
50 55 60

Glu Lys Asp Ile Ala Ala Tyr Arg Ala Lys Gly  
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<213> Homo sapiens

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Pro Lys Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg  
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Pro Lys Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala  
20 25 30

Lys Lys Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln  
35 40 45

Pro Tyr Glu Lys Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp  
50 55 60

Ile Ala Ala Tyr Arg  
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PCT\_EP\_04\_00030\_sequence listing.txt

Pro Lys Arg Pro Pro Ser Ala Phe Phe Leu Phe Cys Ser Glu Tyr Arg  
1 5 10 15

Pro Lys Ile Lys Gly Glu His Pro Gly Leu Ser Ile Gly Asp Val Ala  
20 25 30

Lys Lys Leu Gly Glu Met Trp Asn Asn Thr Ala Ala Asp Asp Lys Gln  
35 40 45

Pro

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<212> PRT

<213> Homo sapiens

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Glu Glu His Lys Lys Lys Asn Pro Asp Ala Ser Val Lys Phe Ser Glu  
1 5 10 15

Phe Leu Lys Lys Cys Ser Glu Thr Trp Lys Thr Ile Phe Ala Lys Glu  
20 25 30

Lys Gly Lys Phe Glu Asp Met Ala Lys Ala Asp Lys Ala His Tyr Glu  
35 40 45

Arg Glu Met Lys Thr Tyr Ile Pro Pro Lys Gly Glu Lys Lys Lys Lys  
50 55 60

Phe Lys Asp Pro Asn Ala Pro Lys Arg Pro Pro Leu Ala Phe Phe Leu  
65 70 75 80

Phe Cys Ser Glu Tyr Arg Pro Lys Ile Lys Gly Glu His Pro Gly Leu  
85 90 95

Ser Ile Asp Asp Val Val Lys Lys Leu Ala Gly Met Trp Asn Asn Thr  
100 105 110

Ala Ala Ala Asp Lys Gln Phe Tyr Glu Lys Lys Ala Ala Lys Leu Lys  
115 120 125

Glu Lys Tyr Lys Lys Asp Ile Ala Ala Tyr Arg Ala Lys Gly Lys Pro  
130 135 140

PCT\_EP\_04\_00030\_sequence listing.txt

Asn Ser Ala Lys Lys Arg Val Val Lys Ala Glu Lys Ser Lys Lys Lys  
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Lys Glu Glu Glu Glu Asp Glu Glu Asp Glu Gln Glu Glu Glu Asn Glu  
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Glu Asp Asp Asp Lys  
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20 25 30

Arg Lys Gln Gln Gln Glu Pro Thr Gly Glu Pro Ser Pro Lys Arg Pro  
35 40 45

Arg Gly Arg Pro Lys Gly Ser Lys Asn Lys Ser Pro Ser Lys Ala Ala  
50 55 60

Gln Lys Lys Ala Glu Ala Thr Gly Glu Lys Arg Pro Arg Gly Arg Pro  
65 70 75 80

Arg Lys Trp Asn Thr Leu Glu Gln Cys Asn Val Cys Ser Lys Pro Ile  
85 90 95

Met Glu Arg Ile Leu Arg Ala Thr Gly Lys Ala Tyr His Pro His Cys  
100 105 110

Phe Thr Cys Val Met Cys His Arg Ser Leu Asp Gly Ile Pro Phe Thr  
115 120 125

Val Asp Ala Gly Gly Leu Ile His Cys Ile Glu Asp Phe His Lys Lys  
130 135 140

Phe Ala Pro Arg Cys Ser Val Cys Lys Glu Pro Ile Met Pro Ala Pro  
Page 16

145 150 155 160

Gly Gln Glu Glu Thr Val Arg Ile Val Ala Leu Asp Arg Asp Phe His  
165 170 175

Val His Cys Tyr Arg Cys Glu Asp Cys Gly Gly Leu Leu Ser Glu Gly  
180 185 190

Asp Asn Gln Gly Cys Tyr Pro Leu Asp Gly His Ile Leu Cys Lys Thr  
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Cys Asn Ser Ala Arg Ile Arg Val Leu Thr Ala Lys Ala Ser Thr Asp  
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atttgtccca	gcctggggct	ccctctctgg	tttcctattt	gcagttactt	gaataaaaaaa	1860
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<210> 34

<211> 291

<212> DNA

<213> Homo sapiens

<400> 34	atgagtgagt	cgagctcgaa	gtccagccag	cccttggct	ccaagcagga	aaaggacggc	60
	actgagaagc	ggggccgggg	caggccgcgc	aagcagcctc	cgaaggagcc	cagcgaagtg	120
	ccaacaccta	agagacctcg	gggcccacca	aagggaaagca	aaaacaaggg	tgctgccaag	180
	acccggaaaa	ccaccacaac	tccaggaagg	aaaccaaggg	gcagacccaa	aaaactggag	240
	aaggaggaag	aggaggcat	ctcgaggag	tcctcgagg	aggagcagtg	a	291

<210> 35

<211> 4111

<212> DNA

<213> Homo sapiens

<400> 35	acacaccaca	cacactcaca	ctcacacaca	ctcacacaca	ctcatccc	tgaatcttgg	60
	ggcaggaact	cagaaaaactt	ccagccggg	cagcgcgcgc	ttggtgcaag	actcaggagc	120

PCT\_EP\_04\_00030\_sequence listing.txt

tagcagcccg	tccccctccg	actctccgg	gccgcccgt	cctgctcccg	ccaccctagg	180
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gcggagt	ccatc	cctcc	tttgcttcc	gactgccc	aa	300
cttctctc	tctct	tctc	tctgtc	tctct	tctctc	360
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ca	cttcc	cc	tccaa	ggt	cc	480
tgatcc	ccgc	gagagg	agc	ctgtcg	ac	540
ttcc	cttgc	tccac	acc	gccac	cc	600
ccgc	ccgc	cgc	agc	ccct	tc	660
tttggc	gctgg	acgtc	cgg	tgt	gat	720
agcc	gccc	ccag	tc	gc	cc	780
tctcc	gccc	ccag	cg	ccgg	cc	840
agcgg	ggagg	cag	tg	agc	ggct	900
agcc	caac	ctg	cc	tca	agaga	960
gcagc	gaa	cc	gtg	agcc	ggcc	1020
cagca	aa	cc	tg	cc	ttc	1080
acggc	ggc	agac	ttc	cc	at	1140
ggagg	aa	act	ttt	cc	tc	1200
ttcgattt	ac	tc	ttt	ggat	ttt	1260
cttattct	ttt	ccat	ttt	ccact	ttt	1320
ggaggg	gg	gg	gt	gggt	ggg	1380
ttcttt	tc	cc	gt	cc	ttt	1440
acagct	taa	ctt	gt	cc	ttt	1500
gtt	taa	gg	taa	gg	ttt	1560
tgca	ttt	gg	gt	cc	ttt	1620
aac	gg	gg	gt	cc	ttt	1680
atc	gg	gg	gt	cc	ttt	1740
ctt	gg	gg	gt	cc	ttt	1800
tgtatc	ttt	gg	gt	cc	ttt	1860
gta	ttt	gg	gt	cc	ttt	1920
aataaattt	ttt	gg	gt	cc	ttt	1980

PCT\_EP\_04\_00030\_sequence\_listing.txt

cctacagagc	caaaatgcc	tttagcaata	aataacactt	gtcagcctca	gagcatttaa	2040					
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tgc	atgatga	actcacctaa	ttatgagg	tg	ggaggaggcga	aatctaaatt	tctttgcta	2160			
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cacttt	tagc	cagagat	atata	atcccc	actact	caat	actac	ctgt	2460		
cgaattt	aca	gtct	tagtact	tatt	acatgc	tgctata	ac	aagcaat	2520		
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gaagcaat	ct	cct	tactgt	gt	tgc	atgcat	actatgt	tatt	ttat	ttttaattt	2640
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tttaac	aa	gtc	gctc	ccta	ggtt	cttaag	gataat	tttc	ctca	atcaca	2760
cacaag	attt	gact	gt	taata	ttt	aaatattt	acc	cctccaa	g	tctgtac	2820
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cttg	tttactt	gc	agc	atttca	ttt	gtt	tttt	caat	gtt	tttttt	2940
acc	ctt	act	gt	ttttt	ttt	ttt	ttt	ttt	ttt	tttttt	3000
cttt	gcaaa	ata	agg	taat	aaat	aaat	aaat	aaat	aaat	aaat	3060
ttgt	taggt	ga	tgt	caacaa	cc	cctg	ctt	tgc	ataat	gc	3120
aagat	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3180
gat	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3240
gc	ctt	ttt	ct	c	ttt	ttt	ttt	ttt	ttt	ttt	3300
gg	tag	ttt	ct	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3360
caaa	accat	tct	tttcc	cag	ctg	ttt	ttt	ttt	ttt	ttt	3420
gag	act	ttt	cc	cagg	ttt	ttt	ttt	ttt	ttt	ttt	3480
tca	acatt	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3540
ag	tgc	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3600
gga	agg	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3660
gtt	acact	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3720
agt	atac	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3780
tc	ataa	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3840
ttt	gct	ttt	cc	ttt	ttt	ttt	ttt	ttt	ttt	ttt	3900

PCT\_EP\_04\_00030\_sequence listing.txt

aagtttaggta tgtttgagg agaaaagtat caagacgtt aactgcagtt gactttctcc 3960

ctgttccttt gagtgcttc taactttatt cttgttctt tatgtagaat tgctgtctat 4020

gattgtactt tgaatcgctt gcttggaa aatatttctc tagtgtatta tcactgtctg 4080

ttctgcacaa taaacataac agcctctgtg a 4111

<210> 36

<211> 330

<212> DNA

<213> Homo sapiens

<400> 36 atgagcgcac gcggtgaggg cgccccag ccgtccactt cagcccaggg acaacctgcc 60

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ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180

tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240

aggaaatggc cacaacaagt tgttcagaag aagcctgctc aggaggaaac tgaagagaca 300

tcctcacaag agtctgccga agaggactag 330

<210> 37

<211> 252

<212> DNA

<213> Homo sapiens

<400> 37 atgagcgcac gcggtgaggg cgccccag ccgtccactt cagcccaggg acaacctgcc 60

gcggccgc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc 120

ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180

tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240

aggaaatggt ga 252

<210> 38

<211> 273

<212> DNA

4)

PCT\_EP\_04\_00030\_sequence\_listing.txt

<213> Homo sapiens

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gcggcccgcc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc 120  
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180  
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240  
aggaaatggg aggagttta cattgcagct tag 273

<210> 39

<211> 291

<212> DNA

<213> Homo sapiens

<400> 39  
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gcggcccgcc ctcagaagag aggacgcggc cgccccagga agcagcagca agaaccaacc 120  
ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180  
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240  
aggaaatggc ctactattgc actttgcaca cactggataa acatctgctg a 291

<210> 40

<211> 1207

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> NCIB Accession No. NM\_002128

<400> 40  
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ggaaaaataa ctaaacatgg gcaaaggaga tcctaagaag ccgagaggca aaatgtcatc 120  
atatgcattt tttgtgcaaa cttgtcggga ggagcataag aagaagcacc cagatgctc 180

## PCT\_EP\_04\_00030\_sequence\_listing.txt

agtcaacttc tcagagttt ctaagaagtg ctcagagagg tggaaagacca tgtctgctaa	240
agagaaaagga aaatttgaag atatggcaaa ggcggacaag gcccgttatg aaagagaaaat	300
gaaaacctat atccctccca aaggggagac aaaaaagaag ttcaaggatc ccaatgcacc	360
caagaggcct cttcggcct tttccctttt ctgctctgag tatcgccaa aatcaaagg	420
agaacatcct ggcctgtcca ttggtgatgt tgcaagaaa ctgggagaga tgtggaataa	480
cactgctgca gatgacaagc agccttatga aaagaaggct gcgaagctga aggaaaaata	540
cggaaaaggat attgctgcat atcgagctaa aggaaagcct gatgcagcaa aaaagggagt	600
tgtcaaggct gaaaaaaagca agaaaaaagaa ggaagaggag gaagatgagg aagatgaaga	660
ggatgaggag gaggaggaag atgaagaaga tgaagatgaa gaagaagatg atgatgatga	720
ataagtttgt tctagcgcag ttttttttcc ttgtctataa agcatttaac cccctgtac	780
acaactcact cttttaaag aaaaaaattt aatgttaagg ctgtgttaaga tttgtttta	840
aactgtacag tgtctttttt tgtatagttt acacactacc gaatgtgtct ttagatagcc	900
ctgtcctgggt ggtattttca atagccacta accttgctg gtacagtatg ggggttgtaa	960
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ttctgttaac tgaataaccac tctgttaattt caaaaaaaaaaa aaaagttgca gctgtttgt	1140
tgacattctt aatgcttcta agtaataaca atttttttta ttaaaaaaaaaaaa aaaaaaaaaaaa	1200
aaaaaaaaa	1207

&lt;210&gt; 41

&lt;211&gt; 648

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 41	
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caaacttgc gggaggagca taagaagaag cacccagatg cttcagtcaa cttctcagag	120
ttttcttctt aatgttcaga gaggttggaa accatgtctg ctaaagagaa aggaaaattt	180
gaagatatgg caaaggcggc caaggccgt tatgaaagag aaatgaaaac ctatatccct	240
cccaaagggg agacaaaaaaaaaa gaagttcaag gatcccaatg caccaagag gcctccttcg	300
gccttcttcc tcttctgctc tgagtatcgc ccaaaaatca aaggagaaca tcctggcctg	360
tccattgggt atgttgcgaa gaaactggaa gagatgtgaa ataacactgc tgcagatgac	420
aagcagcctt atgaaaagaa ggctgcgaag ctgaaggaaa aatacgaaaa ggatattgct	480

PCT\_EP\_04\_00030\_sequence listing.txt

gcatatcgag	ctaaaggaaa	gcctgatgca	gcaaaaaagg	gagttgtcaa	ggctgaaaaa	540
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gaagatgaag	aagatgaaga	tgaagaagaa	gatgatgatg	atgaataa		648

<210> 42

<211> 444

<212> DNA

<213> Homo sapiens

<400> 42	atgagcgcac	gcggtgaggg	cgcggggcag	ccgtccactt	cagcccaggg	acaacctgcc	60
	gccccagcgc	ctcagaagag	aggacgcggc	cgccccagga	agcagcagca	agaaccaacc	120
	ggtgagccct	ctcctaagag	acccagggga	agacccaaag	gcagcaaaaa	caagagtccc	180
	tctaaagcag	ctcaaaagaa	agcagaagcc	actggagaaa	aacggccaag	aggcagacct	240
	aggaaatggg	ctggagtgca	gtggtacaat	ctcggctcat	tgcaacctcc	acctccagg	300
	ttcaagcaat	tctcctgcct	caggctcctg	agtagttggg	attacaggca	cccaccacca	360
	cacccagcta	atttttgtat	ttttagtaga	gacagggttt	caccatgtt	gccaggctgg	420
	tctcgaactc	ctgacacctcag	gtga				444

<210> 43

<211> 321

<212> DNA

<213> Homo sapiens

<400> 43	atgagcgcac	gcggtgaggg	cgcggggcag	ccgtccactt	cagcccaggg	acaacctgcc	60
	gccccagcgc	ctcagaagag	aggacgcggc	cgccccagga	agcagcagca	agaaccaacc	120
	ggtgagccct	ctcctaagag	acccagggga	agacccaaag	gcagcaaaaa	caagagtccc	180
	tctaaagcag	ctcaaaagaa	agcagaagcc	actggagaaa	aacggccaag	aggcagacct	240
	aggaaatggg	acaatctact	accaagaacc	agctccaaga	agaaaacatc	tctggaaac	300
	agtacccaaa	ggagtcactg	a				321

<210> 44

<211> 279

PCT\_EP\_04\_00030\_sequence listing.txt

<212> DNA

<213> Homo sapiens

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ggtgagccct ctccctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180  
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240  
aggaaatggt gttgctaat gaagagcccg tgctggtga 279

<210> 45

<211> 291

<212> DNA

<213> Homo sapiens

<400> 45  
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ggtgagccct ctccctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180  
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240  
aggaaatggc cacaacaagt tgttcagaag aagcctgctc agtattcctg a 291

<210> 46

<211> 357

<212> DNA

<213> Homo sapiens

<400> 46  
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ggtgagccct ctccctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180  
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggcagacct 240  
aggaaatggc cacaacaagt tgttcagaag aagcctgctc aggtcaatgt tgccttgcct 300  
ggaaaggacc acccgggcaa tcttatatat ctactgttct ctaaaaatgc cacttag 357

PCT\_EP\_04\_00030\_sequence listing.txt

<210> 47

<211> 288

<212> DNA

<213> Homo sapiens

<400> 47

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ggtgagccct ctcctaagag acccagggga agacccaaag gcagcaaaaa caagagtccc 180  
tctaaagcag ctcaaaagaa agcagaagcc actggagaaa aacggccaag aggccagacct 240  
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<210> 48

<211> 33

<212> DNA

<213> Homo sapiens

<400> 48

actgagaagc ggggccccgggg caggccgcgc aag 33

<210> 49

<211> 33

<212> DNA

<213> Homo sapiens

<400> 49

acacctaaga gacctcgaaaa ccgacccaaag gga 33

<210> 50

<211> 36

<212> DNA

<213> Homo sapiens

<400> 50

PCT\_EP\_04\_00030\_sequence listing.txt  
actccaggaa ggaaaccaag gggcagaccc aaaaaa

36

<210> 51  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 51  
actgagaagc ggggcccgggg caggccgcgc aag

33

<210> 52  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 52  
acacctaaga gacctcgggg ccgaccaaag gga

33

<210> 53  
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<212> DNA  
<213> Homo sapiens

<400> 53  
actccaggaa ggaaaccaag gggcagaccc aaaaaa

36

<210> 54  
<211> 33  
<212> DNA  
<213> Homo sapiens

<400> 54  
cctcagaaga gaggacgcgg ccgcggcagg aag

33

<210> 55  
<211> 33

PCT\_EP\_04\_00030\_sequence listing.txt

<212> DNA

<213> Homo sapiens

<400> 55 tctcctaaga gacccagggg aagacccaaa ggc 33

<210> 56

<211> 63

<212> DNA

<213> Homo sapiens

<400> 56 actggagaaa aacggccaag aggcagacct aggaaatggc cacaacaagt tgttcagaag 60  
aag 63

<210> 57

<211> 234

<212> DNA

<213> Homo sapiens

<400> 57 cctaagaagc cgagaggcaa aatgtcatca tatgcattt ttgtgcaaac ttgtcgggag 60  
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tcagagaggt ggaaggtaag agggcttaaa acatgctaac aaggtaatta aaagacagtt 180  
tccaattttag gatgcaaaaaa aaagcctagt tggcatttctc gtgtgggac gcta 234

<210> 58

<211> 213

<212> DNA

<213> Homo sapiens

<400> 58 ccgagaggca aaatgtcatc atatgcattt tttgtgcaa cttgtcggga ggagcataag 60  
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tggaaagacca tgtctgctaa agagaaagga aaatggaaat atatggcaa ggcggacaag 180

PCT\_EP\_04\_00030\_sequence listing.txt

gcccgttatg aaagagaaaat gaaaacctat atc 213

<210> 59

<211> 219

<212> DNA

<213> Homo sapiens

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tcagagaggt ggaagaccat gtctgctaaa gagaaaggaa aatttgaaga tatggcaaag 180  
gcggacaagg cccgttatga aagagaaaatg aaaacctat 219

<210> 60

<211> 225

<212> DNA

<213> Homo sapiens

<400> 60  
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aaaatcaaag gagaacatcc tggcctgtcc attggtgatg ttgcgaagaa actgggagag 120  
atgtggaata acactgctgc agatgacaag cagccttatg aaaagaaggc tgcgaagctg 180  
aaggaaaaat acgaaaagga tattgctgca tatcgagcta aagga 225

<210> 61

<211> 207

<212> DNA

<213> Homo sapiens

<400> 61  
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ggagaacatc ctggcctgtc cattggtgat gttgcgaaga aactgggaga gatgtggaat 120  
aacactgctg cagatgacaa gcagccttat gaaaagaagg ctgcgaagct gaaggaaaa 180  
tacgaaaagg atattgctgc atatcga 207

PCT\_EP\_04\_00030\_sequence listing.txt

<210> 62

<211> 147

<212> DNA

<213> Homo sapiens

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ggagaacatc ctggcctgtc cattggtgat gttgcgaaga aactgggaga gatgtggaat 120  
aacactgctg cagatgacaa gcagcct 147

<210> 63

<211> 546

<212> DNA

<213> Homo sapiens

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aaggcggaca aggcccatta tgaaagagaa atgaaaacct atatccctcc taaaggggag 180  
aaaaaaaaaga agttcaagga tcccaatgca cccaaaggc ctccttggc cttttccctg 240  
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gaaaagaagg ctgcaaagct gaaggaaaaa tacaaaaagg atattgctgc atatcgagct 420  
aaaggaaagc ctaattcagc aaaaaagaga gttgtcaagg ctgaaaaaag caagaaaaag 480  
aaggaagagg aagaagatga agaggatgaa caagaggagg aaaatgaaga agatgatgat 540  
aaataa 546

<210> 64

<211> 678

<212> DNA

<213> Homo sapiens

<400> 64

PCT\_EP\_04\_00030\_sequence listing.txt

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aggaaatgga	300
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agcctggatg	420
ttccacaaga	480
ggccaggagg	540
cgatgcagg	600
gatggcaca	660
gcgagcactg	678
acctttag	